

KARNATAKA TEST HOUSE PVT LTD.

MATERIAL TESTING LABORATORY

NABL Accredited Laboratory as per ISO/IEC 17025



Report No. : KTH/C.AGG/2638-4516/2013-2014

Date: 28.02.2014

TEST REPORT ON AGGREGATE (Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Kodigehalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Improvements of parking and construction of public toilet at Sahakaranagar park
in ward No.7.

Name of Contractor* : M/s. K.R. Constructions, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 25.02.2014.

Technical Reference : IS : 2386 Part I to VIII- 1963 (Reaffirmed-2002), IS : 383 - 1970.

Sieve Analysis of Coarse Aggregate - 40mm & down size

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	63	100	100	100	Sample confirms to Single Size for IS: Stipulation of 40mm size Aggregate
2	40	85.2	85 to 100	95 to 100	
3	20	8.4	0 to 20	30 to 70	
4	12.5	-	0 to 20	-	
5	10	-	0 to 5	10 to 35	
6	4.75	-	-	0 to 5	

Sl. No.	Test Conducted	Identification mm	Results	IS : 383 - 1970 Stipulations
1	Flakiness Index (%)	40	11.46	Not specified
2	Elongation Index (%)	40	16.54	Not specified
3	Impact Value (%)	40	22.89	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

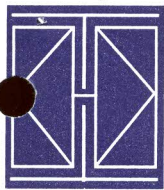
* As furnished by the Customer

For KARNATAKA TEST HOUSE PVT. LTD.



Sreenivasa C
(SREENIVASA.C)
TECHNICAL MANAGER

Note : 1) This report is not to be reproduced except in full without our prior permission in writing.
2) The results listed refer only to the tested samples and applicable parameters.



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Report No. : KTH/F.AGG/2638-4517/2013-2014

Date: 28.02.2014

TEST REPORT ON AGGREGATE

(Fine Aggregate)

Name of the Customer* : The Assistant Executive Engineer,
Kodigehalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Improvements of parking and construction of public toilet at Sahakaranagar park
in ward No.7.

Name of Contractor* : M/s. K.R. Constructions, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 25.02.2014.

Technical Reference : IS : 2386 Part I to VIII- 1963 (Reaffirmed-2002), IS : 383 - 1970.

Sieve Analysis of Fine Aggregate (River Sand)

Sl. No.	Sieve size mm	% Passing	IS : 383 - 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100	100	100	100	100	Falls in Zone -II as per table 4 of IS-383 - 1970.
2	4.75	100	90 - 100	90 - 100	90 - 100	95 - 100	
3	2.36	100	60 - 95	75 - 100	85 - 100	95 - 100	
4	1.18	77.7	30 - 70	55 - 90	75 - 100	90 - 100	
5	0.600	49.1	15 - 34	35 - 59	60 - 79	80 - 100	
6	0.300	11.2	5 - 20	8 - 30	12 - 40	15 to 50	
7	0.150	2.4	0 - 10	0 - 10	0 - 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 - 1970 Stipulations
1.	Materials finer than 75 microns (%) (Deleterious Material)	2.0	Shall not be more than 3.0 %
2.	Fineness Modulus	2.6	Min - 2.0 Max - 3.5

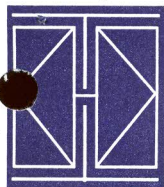
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For KARNATAKA TEST HOUSE PVT. LTD.



(SREENIVASA C)
TECHNICAL MANAGER

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Report No. : KTH/ CEMENT /2638-4518/2013-2014

Date: 04.03.2014

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer* : **The Assistant Executive Engineer,**
Kodigehalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Improvements of parking and construction of public toilet at Sahakaranagar park
in ward No.7.

Name of Contractor* : M/s. K.R. Constructions, Bangalore.

Source of Sample : Supplied by the Customer.

Type of Cement* : Ordinary Portland cement (OPC)

Brand of Cement* : Birla Super 53 Grade.

Sample Received on : 25.02.2014.

Period of Test : 25.02.2014 to 04.03.2014.

Technical Reference : IS: 4031(Part I-VI) 1988 (Reaffirmed-2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	27.6 %	Not specified	-
2	Initial setting time	157 minutes	Shall not be less than 30 minutes	P
3	Final setting time	306 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72 $\pm$ 1h (3 days) b. 168 $\pm$ 2h (7 days) c. 672 $\pm$ 4h (28 days)	29.51 MPa 38.05 MPa T.T.C	Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	P P -
5	Fineness (By Blaine's air permeability method)	327 m ² /kg	Shall not be less than 225 m ² /kg	P
6	Soundness (Le-chatlier's method)	1.17 mm	Shall not be more than 10 mm	P

P: Passes IS requirement

F: Fails IS requirement

T.T.C: Test To be Conducted.

*As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

Bump



Sreenivasa C.
(SREENIVASA.C.)
TECHNICAL MANAGER

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Report No. : KTH/ PB /2638-4519/2013-2014

Date: 26.02.2014

TEST REPORT ON PAVER BLOCK

Name of the Customer : **The Assistant Executive Engineer,**
Kodigehalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Improvements of parking and construction of public toilet at
Sahakaranagar park in ward No.7.

Name of Contractor* : M/s. K.R. Constructions, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Identification : Dumble (I) - Shape Paver Block.

Sample Received on : 25.02.2014.

Technical Reference : IS : 15658 – 2006.

COMPRESSIVE STRENGTH

Sl. No	Thickness in mm	Contact area (mm ²)	Weight of Specimen (Kg)	Load in KN	Compressive Strength in N/mm ²	Compressive Strength (Thickness & Chamfer correction factor are 1.06) in N/mm ²	Requirements as per IS: 15658 – 2006.
1.	78	26800	4.510	500	18.66	22.02	Compressive strength at 28 days shall not be less than 35 N/mm ²
2.	80	26800	4.582	400	14.92	17.60	
3.	79	26800	4.577	490	18.28	21.57	

for KARNATAKA TEST HOUSE PVT. LTD.


(SREENIVASA.C.)
TECHNICAL MANAGER



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